FIG. 1

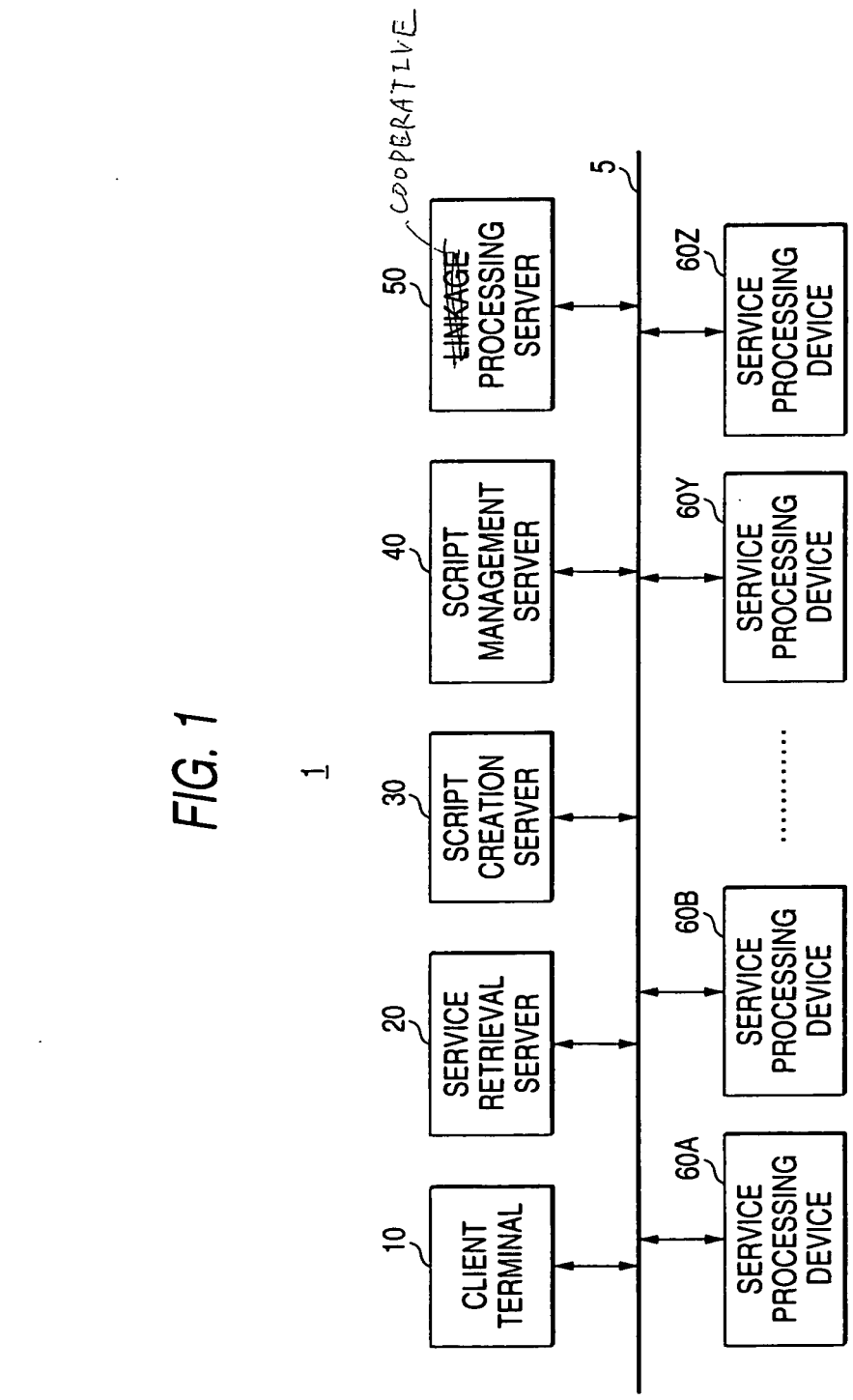

1
5
10
CLIENT TERMINAL
20
SERVICE RETRIEVAL SERVER
30
SCRIPT CREATION SERVER
40
SCRIPT MANAGEMENT SERVER
50
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER
60A
SERVICE PROCESSING DEVICE
60B
SERVICE PROCESSING DEVICE
.....
60Y
SERVICE PROCESSING DEVICE
60Z
SERVICE PROCESSING DEVICE

FIG. 2

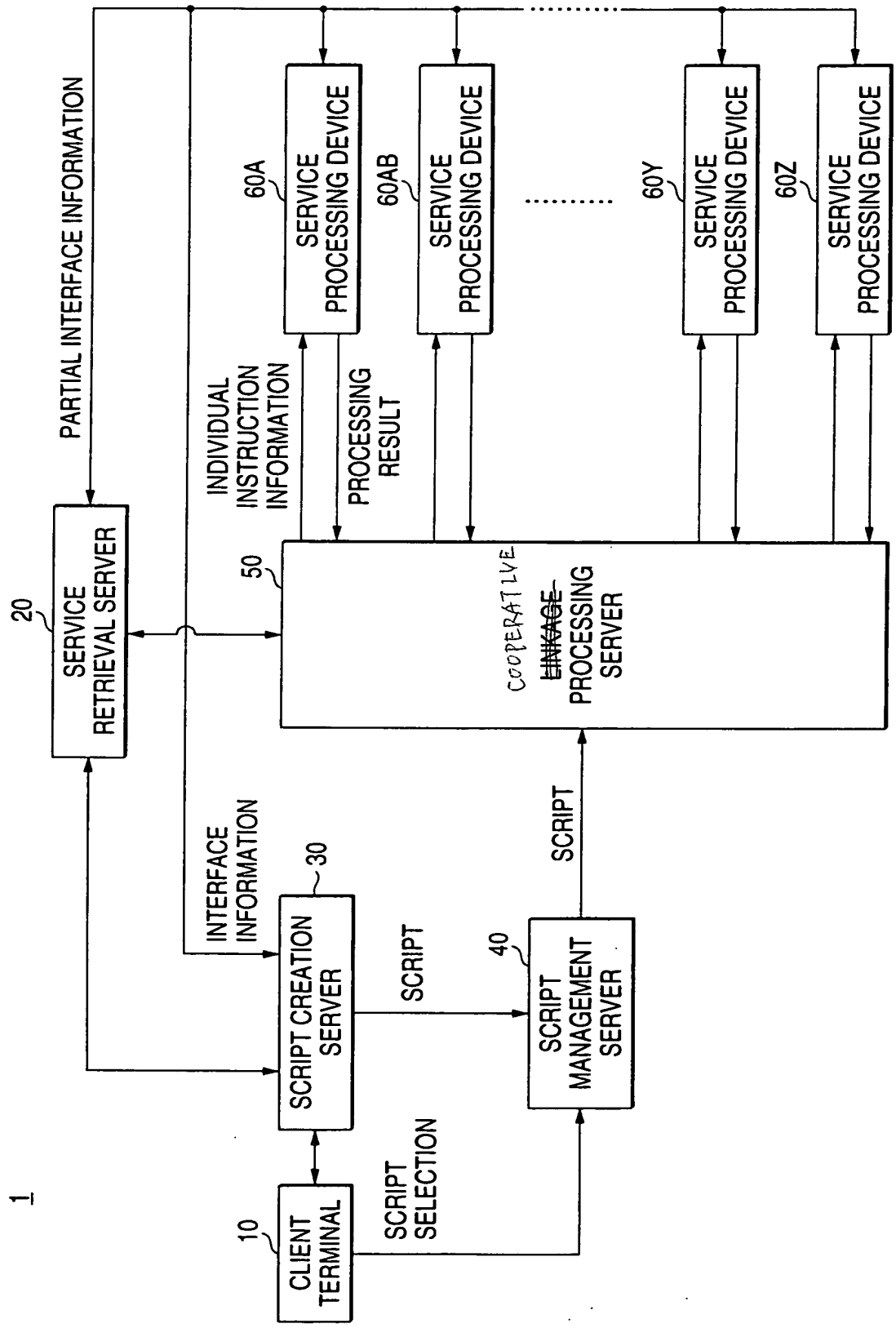

1
CLIENT TERMINAL
10
SCRIPT SELECTION
SCRIPT MANAGEMENT SERVER
40
SCRIPT
SCRIPT CREATION SERVER
30
INTERFACE INFORMATION
SCRIPT
SERVICE RETRIEVAL SERVER
20
50
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER
INDIVIDUAL INSTRUCTION INFORMATION
PROCESSING RESULT
PARTIAL INTERFACE INFORMATION
60A
SERVICE PROCESSING DEVICE
60AB
SERVICE PROCESSING DEVICE
60Y
SERVICE PROCESSING DEVICE
60Z
SERVICE PROCESSING DEVICE

FIG. 3

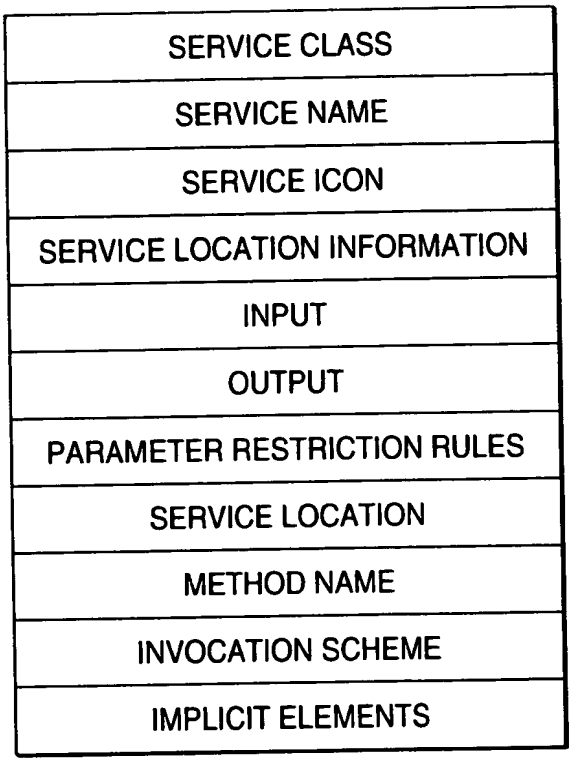

SERVICE CLASS
SERVICE NAME
SERVICE ICON
SERVICE LOCATION INFORMATION
INPUT
OUTPUT
PARAMETER RESTRICTION RULES
SERVICE LOCATION
METHOD NAME
INVOCATION SCHEME
IMPLICIT ELEMENTS

FIG. 4

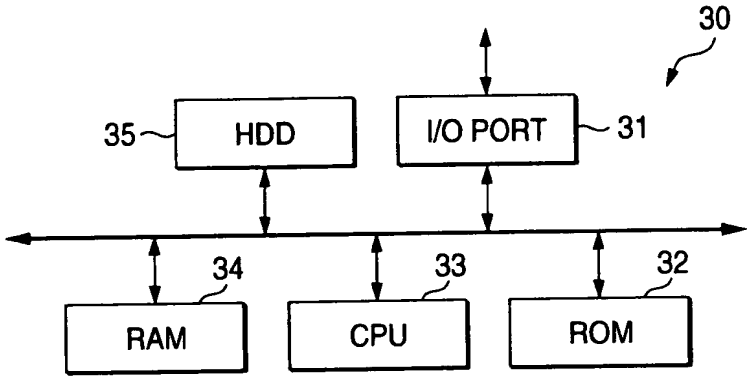


FIG. 5

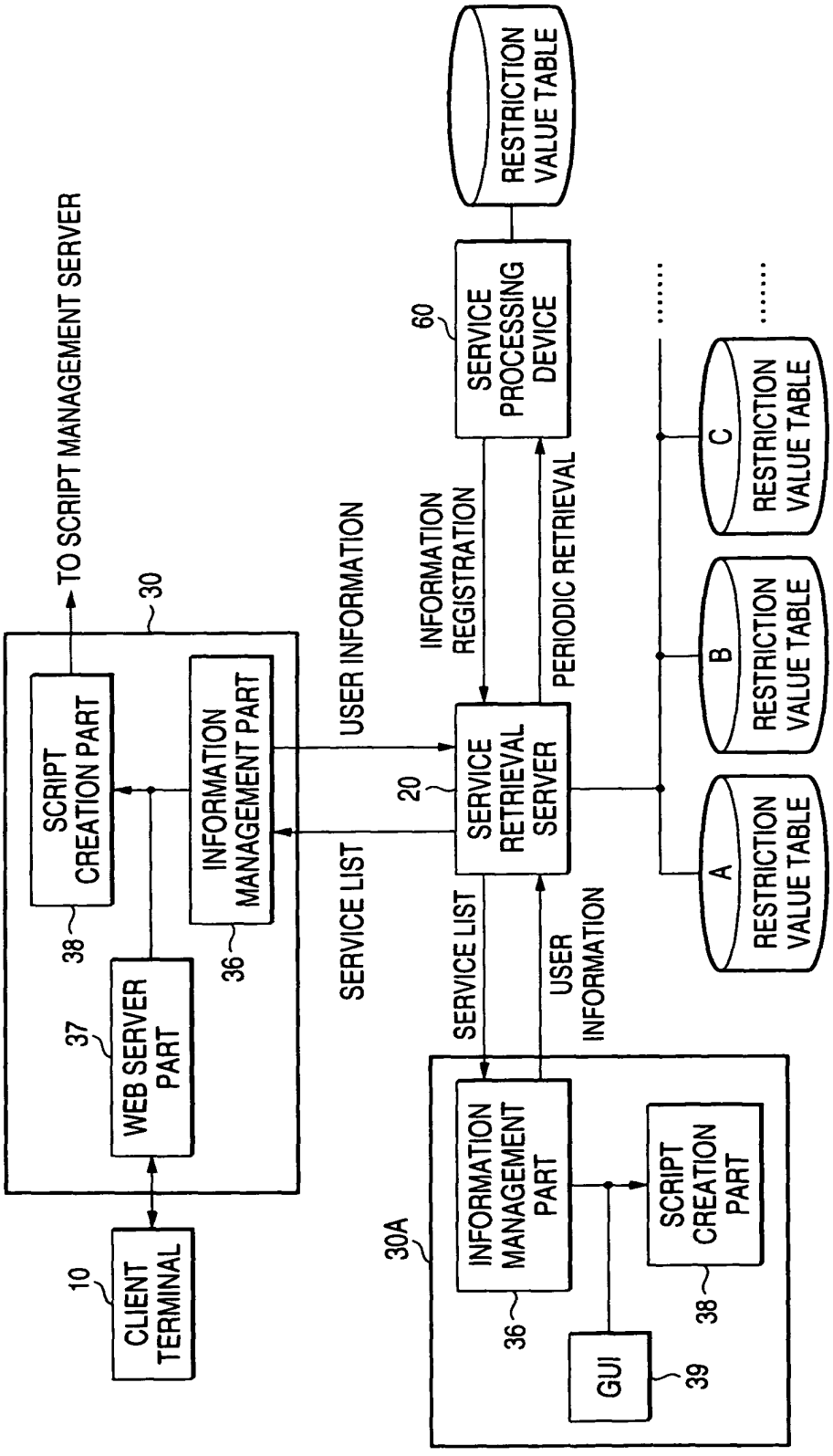

CLIENT TERMINAL
10
WEB SERVER PART
37
SCRIPT CREATION PART
38
INFORMATION MANAGEMENT PART
36
30
TO SCRIPT MANAGEMENT SERVER
USER INFORMATION
SERVICE LIST
SERVICE RETRIEVAL SERVER
20
INFORMATION REGISTRATION
PERIODIC RETRIEVAL
SERVICE PROCESSING DEVICE
60
RESTRICTION VALUE TABLE
A
B
C
SERVICE LIST
USER INFORMATION
30A
INFORMATION MANAGEMENT PART
36
SCRIPT CREATION PART
38
GUI
39

FIG. 6

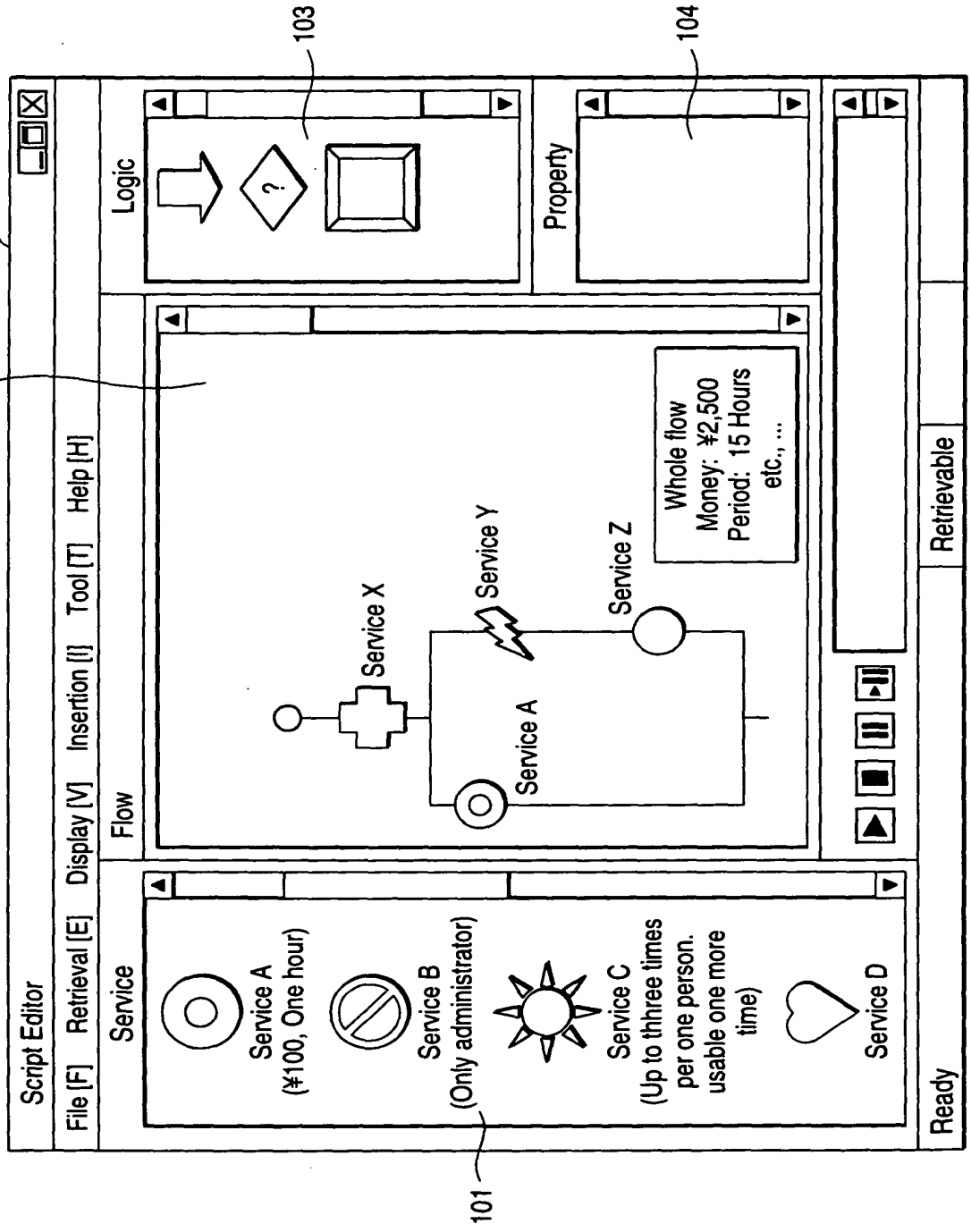

100
Script Editor
File [F]
Retrieval [E]
Display [V]
Insertion [I]
Tool [T]
Help [H]
Service
Service A
(¥100, One hour)
Service B
(Only administrator)
Service C
(Up to thhree times
per one person.
usable one more
time)
Service D
101
Flow
102
Service X
Service Y
Service A
Service Z
Whole flow
Money: ¥2,500
Period: 15 Hours
etc., ...
Logic
103
?
Property
104
Retrievable
Ready

FIG. 7

SERVICE CLASS
SERVICE NAME
SERVICE ICON
SERVICE LOCATION INFORMATION
INPUT
OUTPUT
PARAMETER RESTRICTION RULES
SERVICE LOCATION
METHOD NAME
INVOCATION SCHEME
IMPLICIT ELEMENTS
FLOW (INVOCATION, MAP, METHOD) (CONTROL STRUCTURE, LOGICAL OPERATION)

FIG. 8

RESTRICTION VALUE TABLE	
1	SERVICE EXECUTION MONEY
2	SERVICE EXECUTION TIME
3	NECESSARY AUTHORITY
4	NUMBER OF EXECUTABLE TIMES/PERSON
5	DISTANCE TO USER
⋮	⋮

FIG. 9

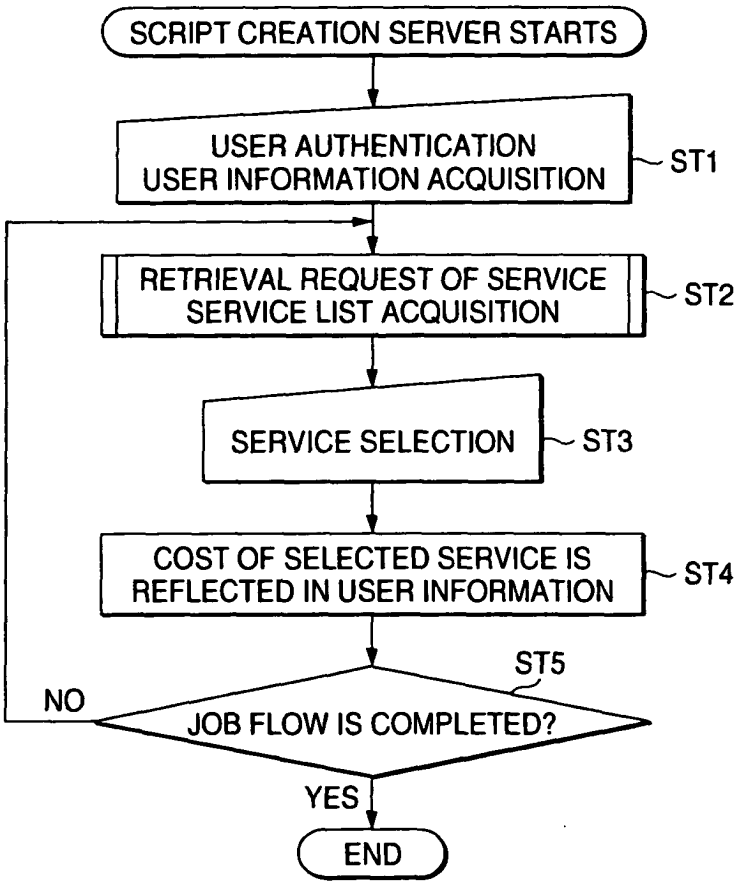

SCRIPT CREATION SERVER STARTS
USER AUTHENTICATION
USER INFORMATION ACQUISITION
ST1
RETRIEVAL REQUEST OF SERVICE
SERVICE LIST ACQUISITION
ST2
SERVICE SELECTION
ST3
COST OF SELECTED SERVICE IS
REFLECTED IN USER INFORMATION
ST4
ST5
NO
JOB FLOW IS COMPLETED?
YES
END

FIG. 10

	USER INFORMATION
1	FUNDS
2	DESIRED DUE DATE
3	USER ACCOUNT
4	NUMBER OF USER EXECUTION TIMES
5	WHEREABOUTS
⋮	⋮

FIG. 11

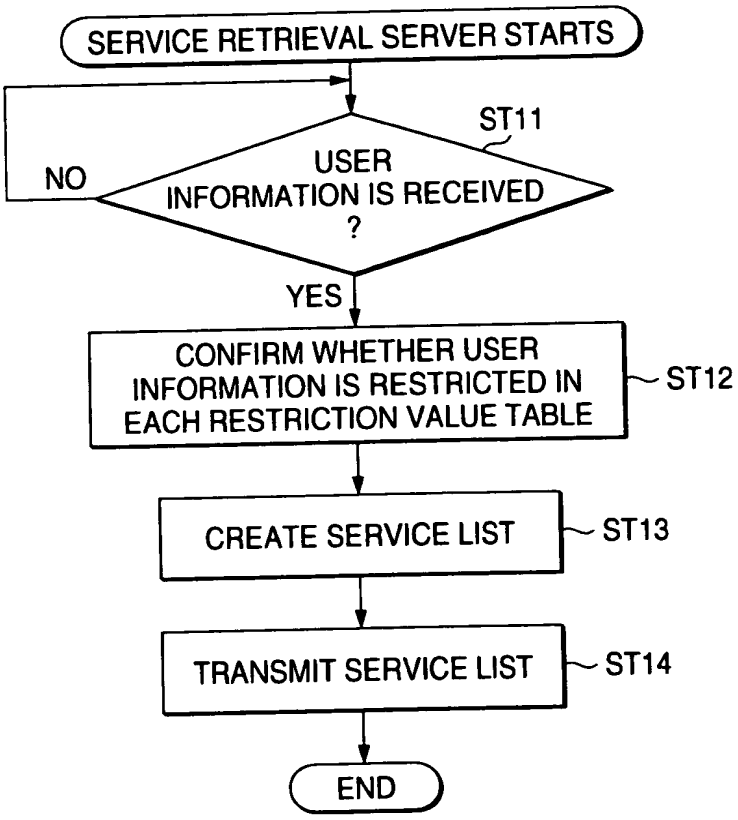

SERVICE RETRIEVAL SERVER STARTS
ST11
USER INFORMATION IS RECEIVED ?
NO
YES
CONFIRM WHETHER USER INFORMATION IS RESTRICTED IN EACH RESTRICTION VALUE TABLE
ST12
CREATE SERVICE LIST
ST13
TRANSMIT SERVICE LIST
ST14
END

FIG. 12

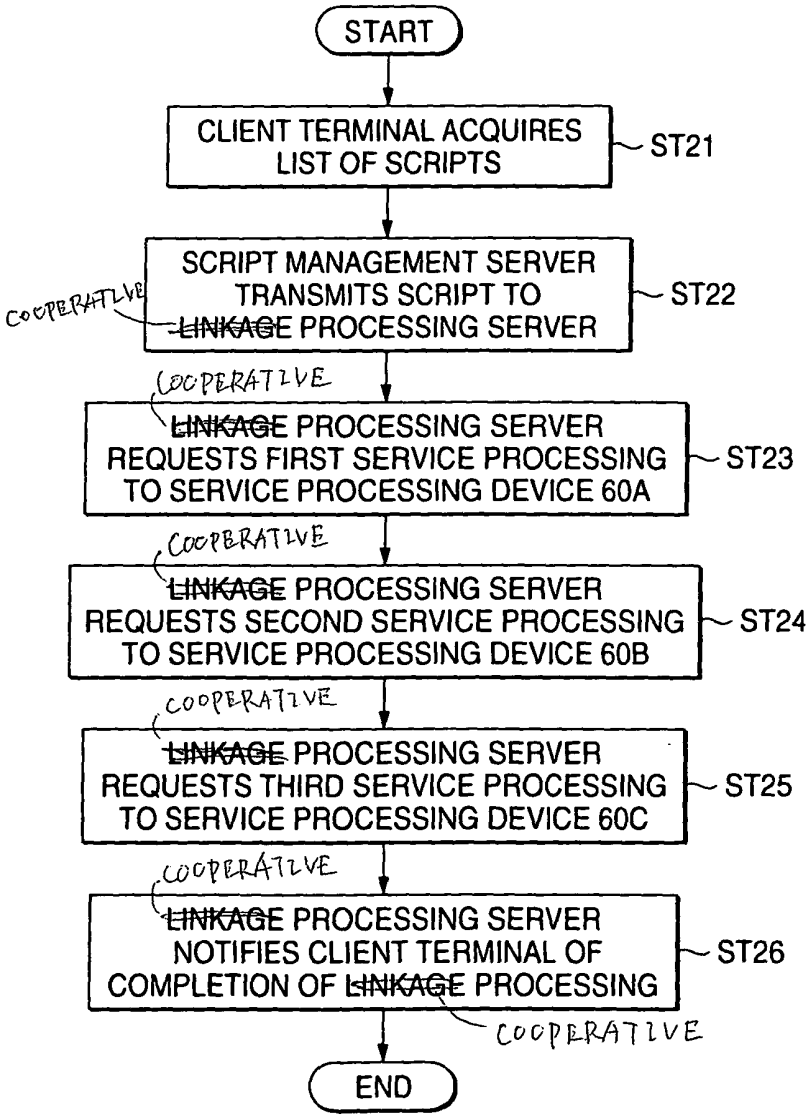

START
CLIENT TERMINAL ACQUIRES LIST OF SCRIPTS
ST21
SCRIPT MANAGEMENT SERVER TRANSMITS SCRIPT TO ~~LINKAGE~~ PROCESSING SERVER
COOPERATIVE
ST22
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER REQUESTS FIRST SERVICE PROCESSING TO SERVICE PROCESSING DEVICE 60A
ST23
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER REQUESTS SECOND SERVICE PROCESSING TO SERVICE PROCESSING DEVICE 60B
ST24
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER REQUESTS THIRD SERVICE PROCESSING TO SERVICE PROCESSING DEVICE 60C
ST25
COOPERATIVE
~~LINKAGE~~ PROCESSING SERVER NOTIFIES CLIENT TERMINAL OF COMPLETION OF ~~LINKAGE~~ PROCESSING
ST26
COOPERATIVE
END

FIG. 13

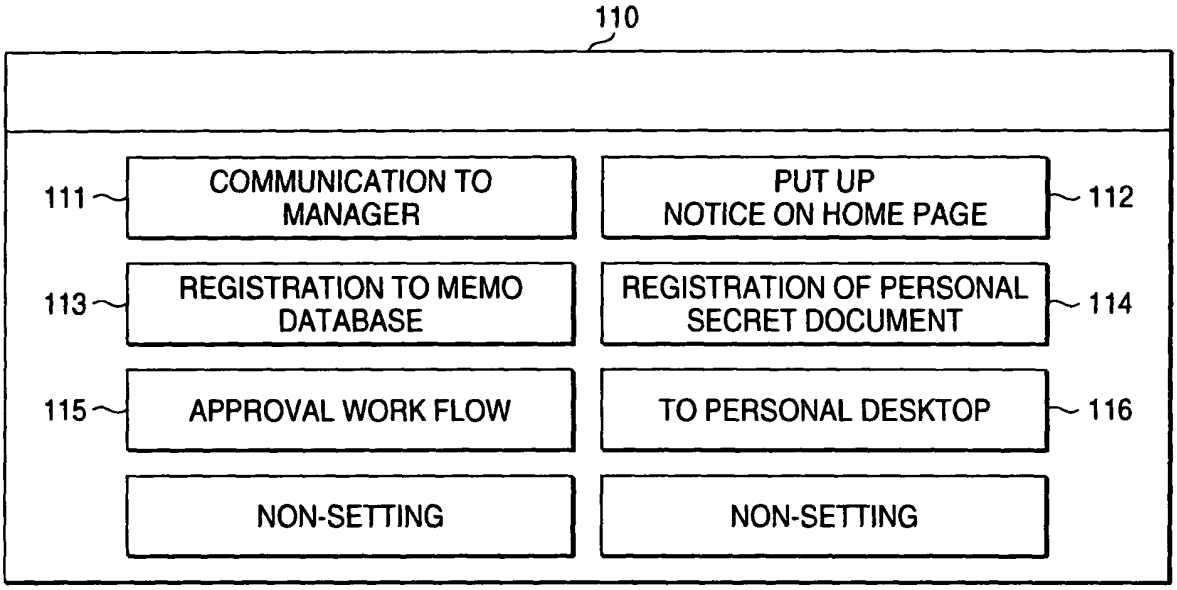

110
111
COMMUNICATION TO MANAGER
PUT UP NOTICE ON HOME PAGE
112
113
REGISTRATION TO MEMO DATABASE
REGISTRATION OF PERSONAL SECRET DOCUMENT
114
115
APPROVAL WORK FLOW
TO PERSONAL DESKTOP
116
NON-SETTING
NON-SETTING

FIG. 14

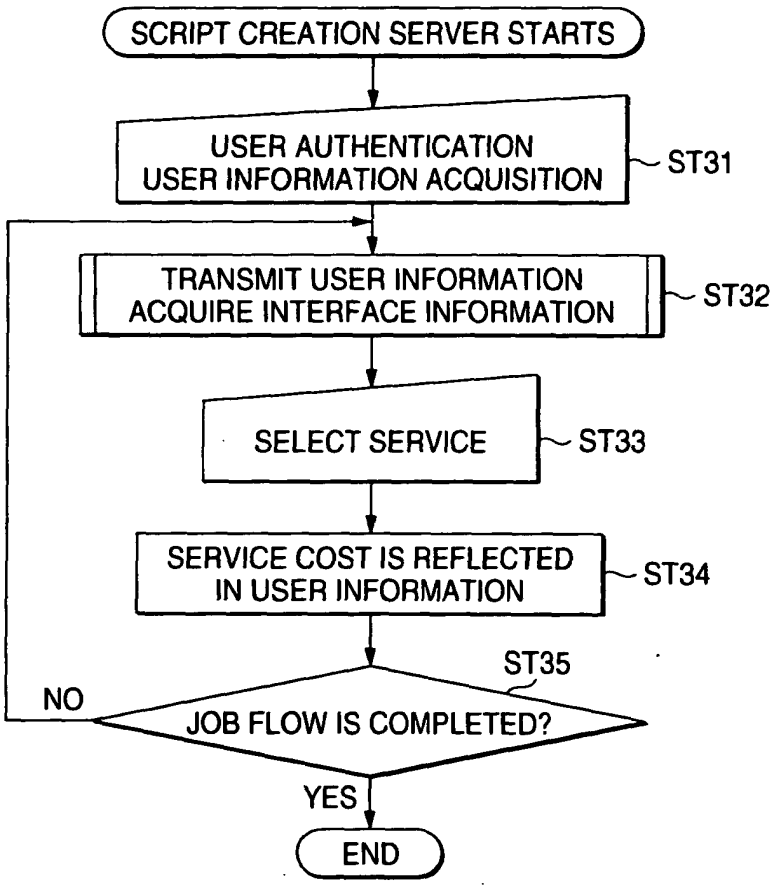

SCRIPT CREATION SERVER STARTS
USER AUTHENTICATION
USER INFORMATION ACQUISITION
ST31
TRANSMIT USER INFORMATION
ACQUIRE INTERFACE INFORMATION
ST32
SELECT SERVICE
ST33
SERVICE COST IS REFLECTED
IN USER INFORMATION
ST34
ST35
NO
JOB FLOW IS COMPLETED?
YES
END

FIG. 15

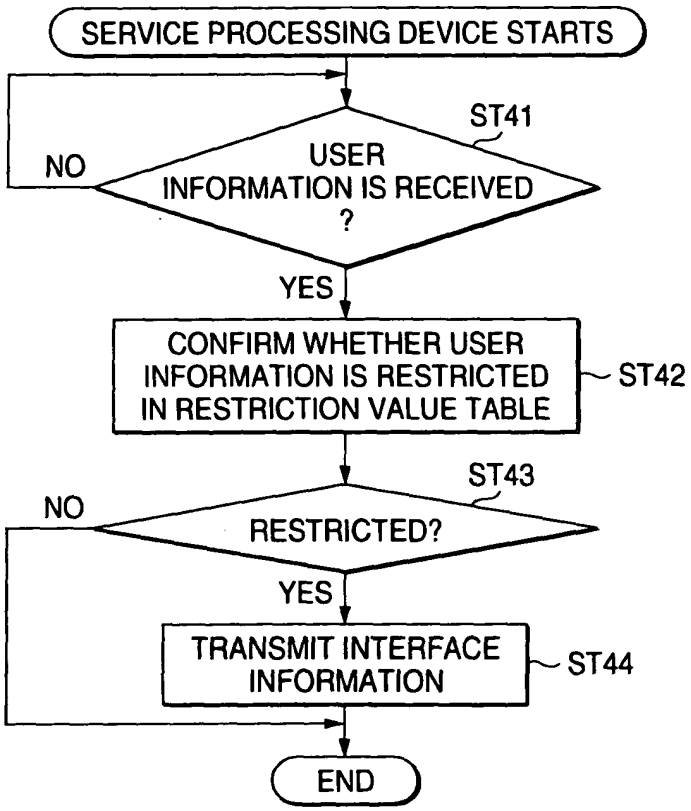

SERVICE PROCESSING DEVICE STARTS
ST41
USER INFORMATION IS RECEIVED ?
NO
YES
CONFIRM WHETHER USER INFORMATION IS RESTRICTED IN RESTRICTION VALUE TABLE
ST42
ST43
RESTRICTED?
NO
YES
TRANSMIT INTERFACE INFORMATION
ST44
END

FIG. 16

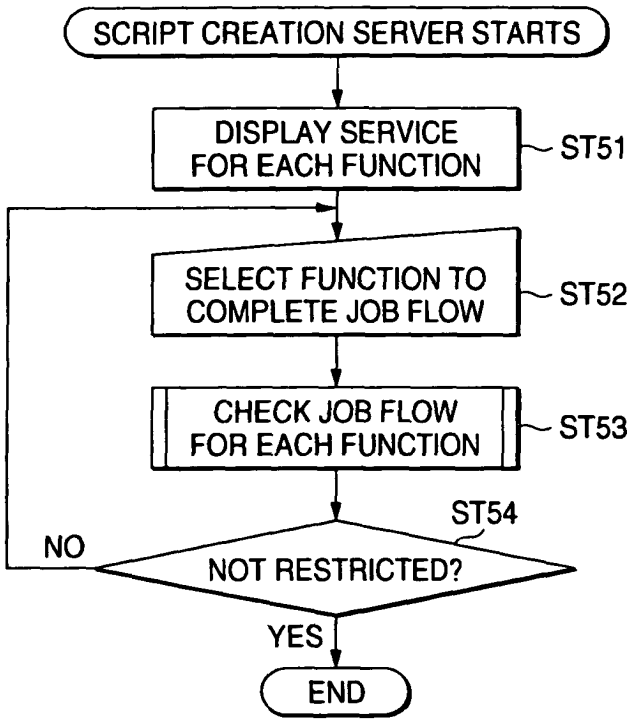

SCRIPT CREATION SERVER STARTS
DISPLAY SERVICE FOR EACH FUNCTION
ST51
SELECT FUNCTION TO COMPLETE JOB FLOW
ST52
CHECK JOB FLOW FOR EACH FUNCTION
ST53
ST54
NO
NOT RESTRICTED?
YES
END

FIG. 17

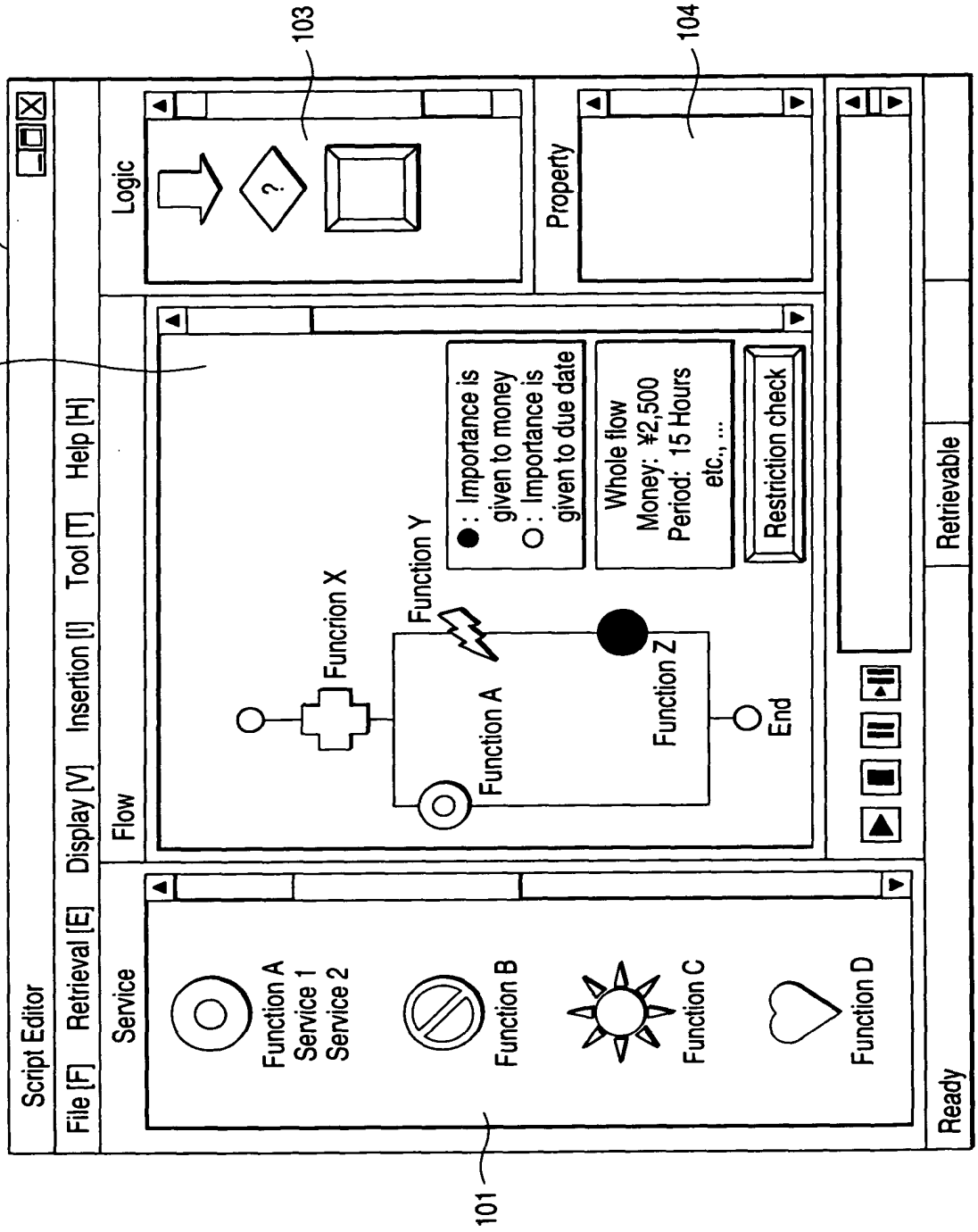

100A
102
103
104
101
Script Editor
File [F]
Retrieval [E]
Display [V]
Insertion [I]
Tool [T]
Help [H]
Service
Function A
Service 1
Service 2
Function B
Function C
Function D
Flow
Funcrion X
Function Y
Function A
Function Z
End
●: Importance is given to money
○: Importance is given to due date
Whole flow
Money: ¥2,500
Period: 15 Hours
etc., ...
Restriction check
Logic
Property
Retrievable
Ready

FIG. 18

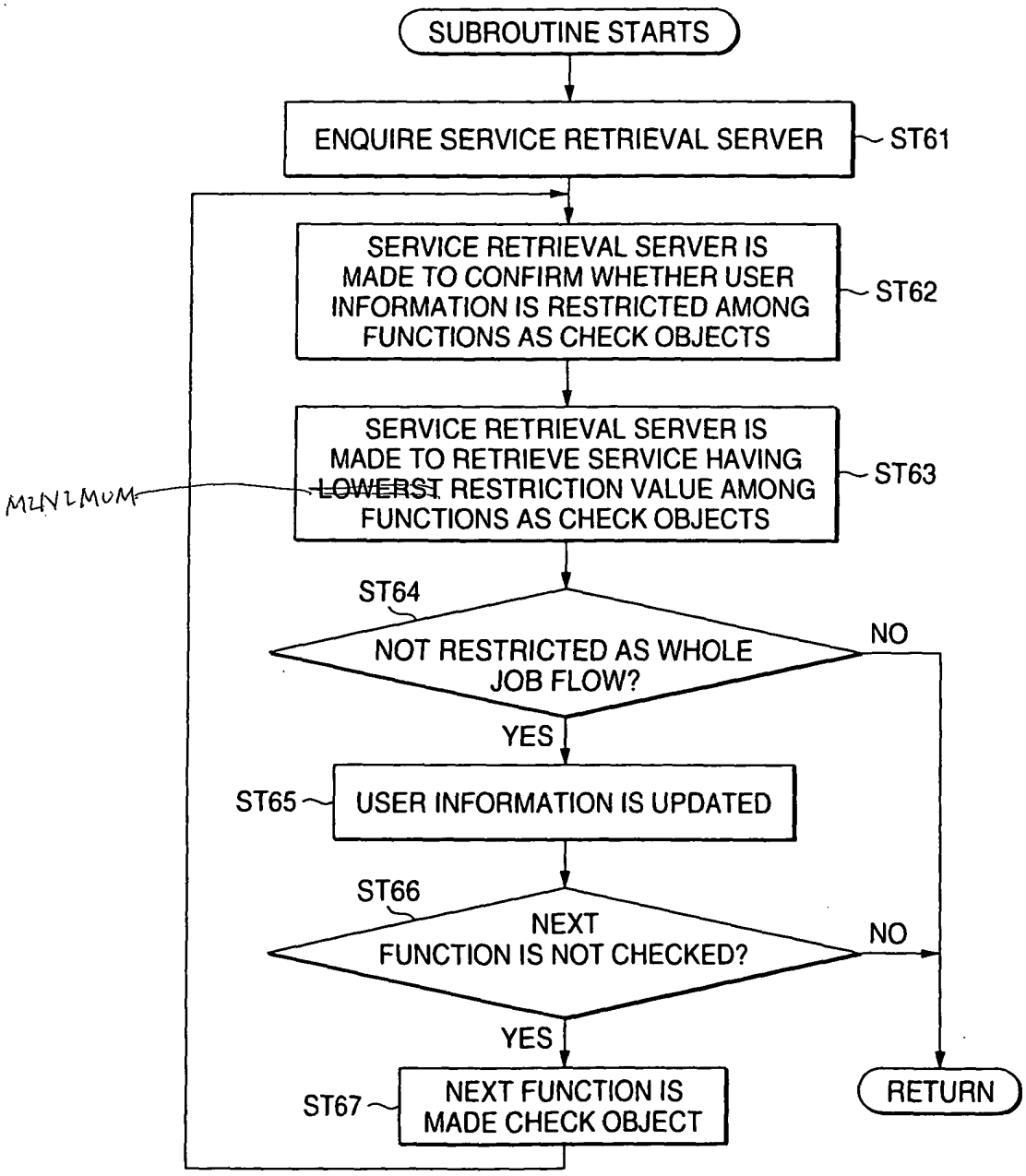

SUBROUTINE STARTS
ENQUIRE SERVICE RETRIEVAL SERVER
ST61
SERVICE RETRIEVAL SERVER IS MADE TO CONFIRM WHETHER USER INFORMATION IS RESTRICTED AMONG FUNCTIONS AS CHECK OBJECTS
ST62
SERVICE RETRIEVAL SERVER IS MADE TO RETRIEVE SERVICE HAVING LOWERST RESTRICTION VALUE AMONG FUNCTIONS AS CHECK OBJECTS
ST63
MINIMUM
ST64
NOT RESTRICTED AS WHOLE JOB FLOW?
NO
YES
ST65
USER INFORMATION IS UPDATED
ST66
NEXT FUNCTION IS NOT CHECKED?
NO
YES
ST67
NEXT FUNCTION IS MADE CHECK OBJECT
RETURN

FIG. 19

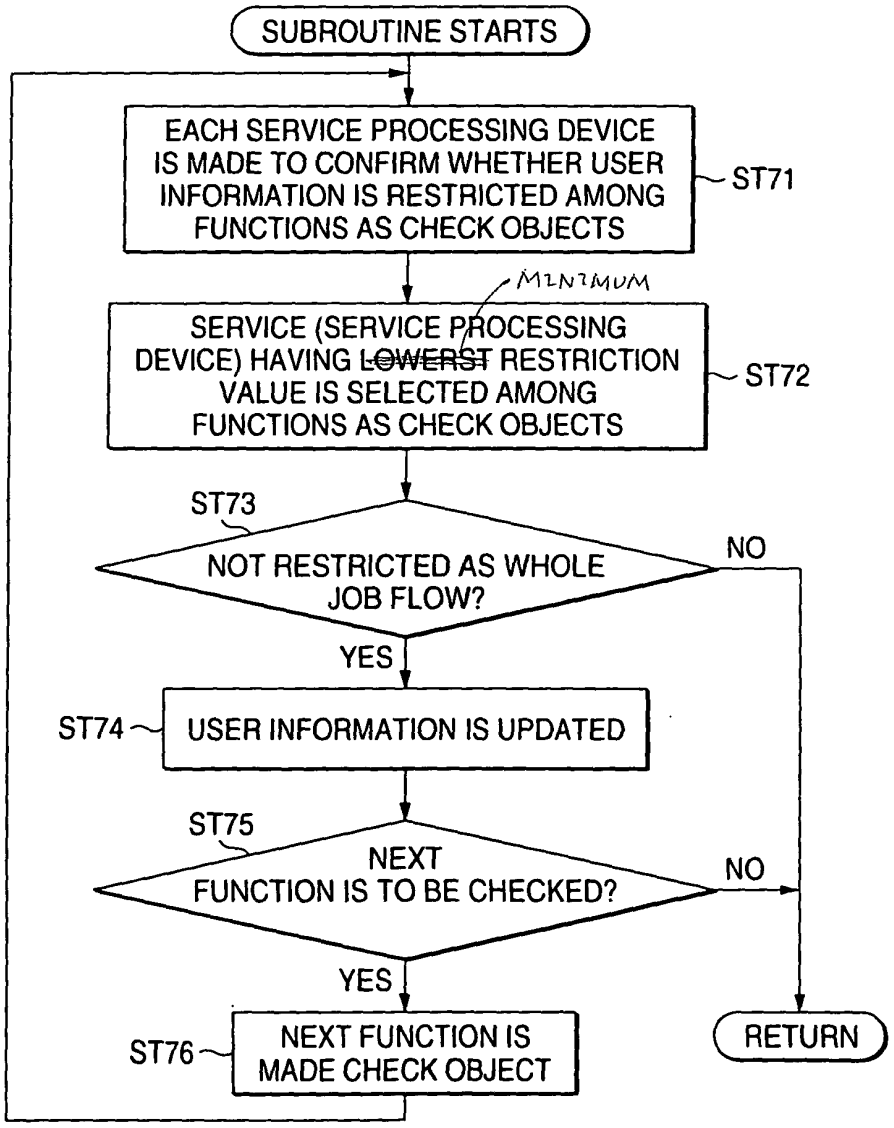
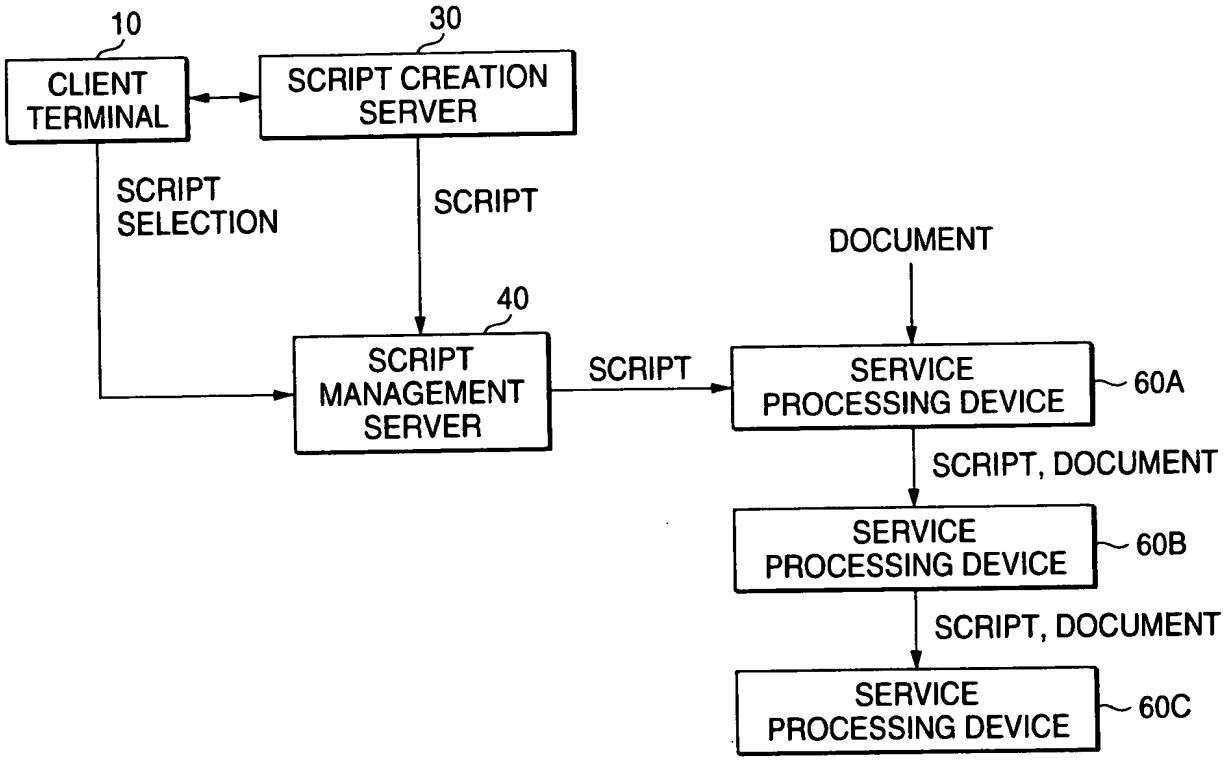

SUBROUTINE STARTS
EACH SERVICE PROCESSING DEVICE IS MADE TO CONFIRM WHETHER USER INFORMATION IS RESTRICTED AMONG FUNCTIONS AS CHECK OBJECTS
ST71
MINIMUM
SERVICE (SERVICE PROCESSING DEVICE) HAVING LOWERST RESTRICTION VALUE IS SELECTED AMONG FUNCTIONS AS CHECK OBJECTS
ST72
ST73
NOT RESTRICTED AS WHOLE JOB FLOW?
NO
YES
ST74
USER INFORMATION IS UPDATED
ST75
NEXT FUNCTION IS TO BE CHECKED?
NO
YES
ST76
NEXT FUNCTION IS MADE CHECK OBJECT
RETURN

FIG. 20


10
30
CLIENT TERMINAL
SCRIPT CREATION SERVER
SCRIPT SELECTION
SCRIPT
DOCUMENT
40
SCRIPT MANAGEMENT SERVER
SCRIPT
SERVICE PROCESSING DEVICE
60A
SCRIPT, DOCUMENT
SERVICE PROCESSING DEVICE
60B
SCRIPT, DOCUMENT
SERVICE PROCESSING DEVICE
60C